PANELBOARD 'RP-9M'

LOAD (VA) ϕA	LOAD (VA) ϕB	LOAD (VA) ϕC	LOAD DESCRIPTION	CKT	CKT	LOAD DESCRIPTION	LOAD (VA) ϕA	LOAD (VA) ϕB	LOAD (VA) ϕC
792			SPARE	1	2	PANELBOARD UPS VIA BYPASS SWITCH	5028		
	792		CONVENIENCE OUTLET	3	4			4594	
		360	SPARE	5	6				4992
–			SPACE	7	8	SPACE	–		
	–		"	9	10	"		–	
		–	"	11	12	"			–
792	792	360	SUBTOTAL 1			SUBTOTAL 2	5028	4594	4992

Breakers: 15A (ckts 1, 3, 5); 3P70A (ckts 2, 4, 6). Main: 3P100A.

	ϕA	ϕB	ϕC	TOTAL
SUBTOTAL 1	792	792	360	1944
SUBTOTAL 2	5028	4594	4992	14614
TOTAL LOAD (VA)	5820	5386	5352	16558

PANEL RP9M 208Y / 120 V,
3 ϕ, 4 W, 100A FRAME, 100A TRIP MCB
SHORT CIRCUIT RATING = 10 KA
NON-LINEAR TYPE WITH 200% NEUTRAL.

PANELBOARD 'ERP-9E'

*: HACR RATED

LOAD (VA) ϕA	LOAD (VA) ϕB	LOAD (VA) ϕC	LOAD DESCRIPTION	CKT	CKT	LOAD DESCRIPTION	LOAD (VA) ϕA	LOAD (VA) ϕB	LOAD (VA) ϕC
–			SPARE	1	2	UNINTERRUPTIBLE POWER SUPPLY	7576		
	–		"	3	4			7576	
		–	"	5	6				7576
2820			ROOFTOP CONDENSING UNIT	7	8	AIR HANDLING UNIT A/C-1	684		
	2820			9	10			684	
		2820		11	12				684
300			MECHANICAL CONTROLS	13	14	EF-1	696		
	–		SPACE	15	16	EF-2		696	
		–	"	17	18	SPARE			–
180			CONVENIENCE OUTLET	19	20	LIGHTS – BATTERY ROOM	450		
	180		"	21	22	SPACE		–	
		1200	LIGHTS – RADIO ROOM	23	24	"			–
372			TRANSFER FAN TF-1	25	26	"	–		
	372			27	28	"		–	
		372		29	30	"			–
3672	3372	4392	SUBTOTAL 1			SUBTOTAL 2	9405	8956	8260

Breakers: 15A (ckts 1, 3, 5, 13, 19, 21, 23); 3P60A* (ckts 7, 9, 11); 3P15A* (ckts 25, 27, 29); 3P90A (ckts 2, 4, 6); 3P15A* (ckts 8, 10, 12); 15A (ckts 14, 16, 18, 20). Main: 3P150A.

	ϕA	ϕB	ϕC	TOTAL
SUBTOTAL 1	3672	3372	4392	11436
SUBTOTAL 2	9406	8956	8260	26662
TOTAL LOAD (VA)	13078	12328	12652	38098

PANEL ERP-9E 208Y/ 120V,
3 ϕ, 4 W, 225A FRAME, 150A TRIP MCB
SHORT CIRCUIT RATING = 10 KA
NON-LINEAR TYPE WITH 200% NEUTRAL.

PANELBOARD "DC"

LOAD (AMPS) "+"	LOAD (AMPS) "–"	LOAD DESCRIPTION	CKT	CKT	LOAD DESCRIPTION	LOAD (AMPS) "+"	LOAD (AMPS) "–"
22		BATTERY STRING NUMBER 1	1	2	BATTERY STRING NUMBER 3	22	
	22		3	4			22
22		BATTERY STRING NUMBER 2	5	6	BATTERY STRING NUMBER 4	22	
	22		7	8			22
–		SPACE	9	10	SPARE	–	
	–		11	12			–
44	44	SUBTOTAL 1			SUBTOTAL 2	44	44

Breakers: 2P60A.

	"+"	"–"
SUBTOTAL 1	44	44
SUBTOTAL 2	44	44
TOTAL LOAD (AMPS)	88	88

PANELBOARD "DC"
225A MLO, 250 VDC
SHORT CIRCUIT RATING = 5KA
SQUARE D "I-LINE" WITH FA24060(AB) CIRCUIT BREAKERS, OR APPROVED EQUAL

PANELBOARD UPS

LOAD (VA) ϕA	LOAD (VA) ϕB	LOAD (VA) ϕC	LOAD DESCRIPTION	CKT	CKT	LOAD DESCRIPTION	LOAD (VA) ϕA	LOAD (VA) ϕB	LOAD (VA) ϕC
360			EQUIPMENT OUTLETS	1	2	EQUIPMENT OUTLETS	360		
	360		EQUIPMENT OUTLETS	3	4	EQUIPMENT OUTLETS		360	
		360	EQUIPMENT OUTLETS	5	6	EQUIPMENT OUTLETS			360
360			TELCO BOARD	7	8	EQUIPMENT OUTLETS	360		
	360		EQUIPMENT OUTLETS	9	10	EQUIPMENT OUTLETS		360	
		360	EQUIPMENT OUTLETS	11	12	EQUIPMENT OUTLETS			360
360			EQUIPMENT OUTLETS	13	14	EQUIPMENT OUTLETS	360		
	360		EQUIPMENT OUTLETS	15	16	EQUIPMENT OUTLETS		360	
		360	EQUIPMENT OUTLETS	17	18	EQUIPMENT OUTLETS			360
360			EQUIPMENT OUTLETS	19	20	EQUIPMENT OUTLETS	360		
	360		EQUIPMENT OUTLETS	21	22	EQUIPMENT OUTLETS		360	
		360	EQUIPMENT OUTLETS	23	24	EQUIPMENT OUTLETS			360
360			EQUIPMENT OUTLETS	25	26	SPARE	360		
	360		EQUIPMENT OUTLETS	27	28	SPACE		–	
		360	EQUIPMENT OUTLETS	29	30	"			–
360			EQUIPMENT OUTLETS	31	32	"	–		
	360		EQUIPMENT OUTLETS	33	34	AIRFLOW ALARM		–	
		360	SPARE	35	36	AIRFLOW ALARM			–
360			SPARE	37	38	TRANSIENT VOLTAGE SURGE SUPPRESSOR	–		
	288		LIGHTS – BATTERY ROOM	39	40			–	
		1380	LIGHTS – RADIO ROOM	41	42				–
2520	2448	3540	SUBTOTAL 1			SUBTOTAL 2	1800	1440	1440

Breakers: 15A (ckts 1–41, 2–26, 34, 36); 3P100A (ckts 38, 40, 42). Main: 3P70A.

	ϕA	ϕB	ϕC	TOTAL
SUBTOTAL 1	2520	2448	3540	8506
SUBTOTAL 2	1800	1440	1440	4680
TOTAL LOAD (VA)	4320	3886	4980	13186

PANEL UPS 208Y / 120 V,
225A, 3 ϕ, 4 W, 225A FRAME, 70A TRIP MCB
SHORT CIRCUIT RATING = 10 KA
NON-LINEAR TYPE W/ 200% NEUTRAL.

THE PORT AUTHORITY OF NY & NJ

STATE OF NEW YORK – ANDREW J. SIMONS, JR. – LICENSED PROFESSIONAL ENGINEER – 068565
11/7/97

ORIGINAL SIGNED & SEALED BY N.Y. P.E. (OR R.A.)

Ram Communications Consultants, Inc.
10 Woodbridge Center Drive
Woodbridge, NJ 07095
(908) 636-6970 fax (908) 636-7260

HEREBY CERTIFY THAT THIS IS A TRUE AND CORRECT COPY OF ONE OF THE CONTRACT DRAWINGS CONSTITUTING A PART OF CONTRACT NO. WTC-945.071 IN THE FORM IN WHICH SAID DRAWINGS EXISTED AT THE TIME THE SAID CONTRACT WAS EXECUTED BY THE PARTIES.
DATE 1/16/98 Sultan A. Aslam SPEC. WRITER
DATE 4/10/98 P.K. ENGINEER OF DESIGN

No.	Date	Revision	Approved

The World Trade Center

Title
STANDBY POWER
5 WORLD TRADE CENTER

COMMUNICATIONS

PANELBOARD SCHEDULES

This drawing subject to conditions in contract. All inventions, ideas, designs and methods herein are reserved to Port Authority and may not be used without its written consent.

D.S.	R.M.	D.S.
Designed by	Drawn by	Checked by

Date Scale NONE
Contract Number: WTC-945.071 Drawing Number: E-805